

Female lab. diagnostics

Name: Crarer, Abigail/ Abby
Date of birth: 09/12/1986
Patient ID: 795625
Initial consultation: 09/03/2023
Weight: 81
Height: 168
BMI: 28.7

Fertility Associates Wellington
Level 11, 155 The Terrace
6011 Wellington
Phone: (04) 384 8401
Fax: (04) 384 8402
faw@fertilityassociates.co.nz

Attending clinician: Murray, Andrew Dr

Gravida: Gravida: 1 **Para:** 0 **Abort:** 0 **Ind. abortion:** 1 **Ectopic:** 0

Date	Group	Sample	Param. import name	Parameter	Value	Unit	Value range	Note
20/04/2023	General			PGD/PGS results/feasibility	Requested			
19/06/2023	General			PGD/PGS results/feasibility	Requested			CHL utilising SNP technology
25/05/2023	General			PGD/PGS results/feasibility	NOT feasible			CHL current testing not feasible. Two options: await new SNP technology and retest feasibility at CHL OR do both feasibility and genetic testing via Monash
15/11/2023	General			PGD/PGS results/feasibility	PGT-M is AVAILABLE			For PGT-M at CHL using SNP technology
24/03/2023	Haematology			Blood Group	0			24
28/07/2025	Haematology			Full blood count	Normal			
24/03/2023	Antenatal			VDRL	Non-reactive			

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15/03/2024	Reproductive Hormone	FA604462		Oestradiol	1951	pmol/l		
15/03/2024	Reproductive Hormone	FA604462		Progesterone	1	nmol/l		
18/03/2024	Reproductive Hormone	FA612600		Oestradiol	4834	pmol/l		
18/03/2024	Reproductive Hormone	FA612600		Progesterone	4	nmol/l		
22/04/2024	General			PGD/PGS results/feasibility				Crarer PGT-M Analysis Report Apr-24

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19/07/2024	Reproductive Hormone	FA635822		Oestradiol	1146	pmol/l		Entered by BT Checked by
19/07/2024	Reproductive Hormone	FA635822		Progesterone	1	nmol/l		Entered by BT Checked by
24/07/2024	Reproductive Hormone	FA644554		Oestradiol	4466	pmol/l		Entered by LMT Verified by CR
24/07/2024	Reproductive Hormone	FA644554		Progesterone	4	nmol/l		Entered by LMT Verified by CR
22/01/2025	General			Genetics				PGT-M result from December 2024 cycle

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05/09/2025	Reproductive Hormone	FA734070		Oestradiol	6273	pmol/l		BT ND
05/09/2025	Reproductive Hormone	FA734070		Progesterone	4	nmol/l		BT ND
24/03/2023	Reproductive Hormone	23-8550600-A MH-0	Anti Mullerian Hormone	Anti-Mullerian-Hormone (Invoice Fertility Associates if applicable)	15			ANTI MULLERIAN HORMONE Ref. Range Anti Mullerian Hormone 15 pmol/L (5-25) Fertility assessment should consider the full clinical context.
24/03/2023	Haematology	23-8547075-FBE-0	Basophils	Basophils	0.0	x 10e9/L	< 0.3	
28/07/2025	Haematology	25-36187112-FBE-0	Basophils	Basophils	0.0	x 10e9/L	0.0 - 0.2	

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Date	Group	Sample	Param. import name	Parameter	Value	Unit	Value range	Note
24/03/2023	Haematology	23-854 7075-G RP-0	Blood Group	Blood Group Only	O			
05/05/2023	Non-test	23-882 2355-5 611-08 60	CHL Order Number	Other	23TT0938M561100			
28/07/2025	Non-test	25-361 87112-GLY-0	Comment	Other				If used as a screening test, HbA1c result likely excludes diabetes. No need to repeat until next scheduled CVD risk assessment. If diabetic and treated with insulin/sulphonylureas, HbA1c suggests excellent control, but risk of hypoglycaemia is increased.
24/03/2023	Haematology	23-854 7075-F BE-0	Eosinophils	Eosinophils	0.1	x 10e9/L	< 0.6	
28/07/2025	Haematology	25-361 87112-FBE-0	Eosinophils	Eosinophils	0.1	x 10e9/L	0.0 - 0.5	
28/07/2025	Haematology	25-361 87112-FBE-0	Haematocrit	Haematocrit	0.40	L/L	0.35 - 0.46	

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Date	Group	Sample	Param. import name	Parameter	Value	Unit	Value range	Note
24/03/2023	Haematology	23-8547075-FBE-0	Haemoglobin	Haemoglobin	137	g/L	115 - 155	
28/07/2025	Haematology	25-36187112-FBE-0	Haemoglobin	Haemoglobin	135	g/L	115 - 155	
28/07/2025	Chemistry		HbA1c	HbA1c	32	mmol/mol	< 41	
28/07/2025	Non-test	25-36187112-GLY-0	HbA1c	Other	32	mmol/mol	< 42	
24/03/2023	Immunology	23-8547075-HPM-0	HBsAg	Hep B (HBsAG)	Not Detected			
28/08/2025	Reproductive Hormone	25-36949196-HCG-0	hCG	BHCG	< 1	IU/L		

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22/09/2025	Reproductive Hormone	25-375 36415- HCG-0	hCG	BHCG	2	IU/L		
24/03/2023	Haematology	23-854 7075-F BE-0	Hct	Haematocrit	0.40		0.35 - 0.46	
24/03/2023	Immunology	23-854 7075-H CV-0	Hepatitis C Ab	Hep C (anti HCV)	Not Detected			
24/03/2023	Antenatal	23-854 7075-H IV-0	HIV (1 + 2) Ag.Ab.	HIV antibody	Not Detected			
24/03/2023	Haematology	23-854 7075-F BE-0	Lymphocytes	Lymphocytes	1.5	x 10e9/L	1.0 - 4.0	
28/07/2025	Haematology	25-361 87112- FBE-0	Lymphocytes	Lymphocytes	1.9	x 10e9/L	1.0 - 4.0	

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Date	Group	Sample	Param. import name	Parameter	Value	Unit	Value range	Note
24/03/2023	Haematology	23-8547075-FBE-0	MCH	Mean cell haemoglobin	31	pg	27 - 33	
28/07/2025	Haematology	25-36187112-FBE-0	MCH	Mean cell haemoglobin	30	pg	27 - 33	
24/03/2023	Haematology	23-8547075-FBE-0	MCV	Mean Cell Volume	90	fL	80 - 99	
28/07/2025	Haematology	25-36187112-FBE-0	MCV	Mean Cell Volume	89	fL	80 - 99	
05/05/2023	Non-test	23-8822355-5611-0860	Molpath Report	Other				Molpath Report This sample was used in a Feasibility Study for preimplantation genetic testing for monogenic disorders (PGT-M). The final report will be sent to the requesting clinician. For any queries, please contact Molecular Pathology at genelab.test@cdhb.health.nz

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Date	Group	Sample	Param. import name	Parameter	Value	Unit	Value range	Note
25/05/2023	Non-test	23TY8169B561100	Molpath Report	Other				Molpath Report Feasibility Test for preimplantation genetic testing for monogenic disorders (PGT-M). The final report will be sent separately to the requesting clinician. For any queries, please contact Molecular Pathology at genelab.test@cdhb.health.nz
13/11/2023	Non-test	23WF8241G561100	Molpath Report	Other				Molpath Report Feasibility Test for preimplantation genetic testing for monogenic disorders (PGT-M). The final report will be sent separately to the requesting clinician. For any queries, please contact Molecular Pathology at genelab.test@cdhb.health.nz
26/03/2024	Non-test	24DG4799U561100	Molpath Report	Other				Molpath Report Preimplantation genetic testing for monogenic disorders (PGT-M) embryo analysis. A separate report was sent to the requesting clinician. For any queries, please contact Molecular Pathology at genelab.test@cdhb.health.nz

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26/03/2024	Non-t est	24DG4799U561100	Molpath Report	Other				Molpath Report Preimplantation genetic testing for monogenic disorders (PGT-M) embryo analysis. A separate report was sent to the requesting clinician. For any queries, please contact Molecular Pathology at genelab.test@cdhb.health.nz
04/12/2024	Non-t est	24GR4624L561100	Molpath Report	Other				Molpath Report Preimplantation genetic testing for monogenic disorders (PGT-M) embryo analysis. A separate report was sent to the requesting clinician. For any queries, please contact Molecular Pathology at genelab.test@cdhb.health.nz
04/12/2024	Non-t est	24GR4624L561100	Molpath Report	Other				Molpath Report Preimplantation genetic testing for monogenic disorders (PGT-M) embryo analysis. A separate report was sent to the requesting clinician. For any queries, please contact Molecular Pathology at genelab.test@cdhb.health.nz

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Date	Group	Sample	Param. import name	Parameter	Value	Unit	Value range	Note
24/03/2023	Haem atology	23-854 7075-F BE-0	Monocytes	Monocytes	0.3	x 10e9/L	0.2 - 1.0	
28/07/2025	Haem atology	25-361 87112- FBE-0	Monocytes	Monocytes	0.5	x 10e9/L	0.2 - 1.0	
24/03/2023	Haem atology	23-854 7075-F BE-0	Neutrophils	Neutrophils	3.9	x 10e9/L	1.9 - 7.5	
28/07/2025	Haem atology	25-361 87112- FBE-0	Neutrophils	Neutrophils	4.1	x 10e9/L	1.9 - 7.5	

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24/03/2023	Non-t est	23-854 7075-G LY-0	Note	Other				Results in range <41. In the setting of diagnosis or CV risk screening, this result virtually excludes diabetes. No need to repeat until next scheduled CVD risk assessment. In the setting of confirmed diabetes, this result indicates excellent control; increased risk of hypoglycaemia if on insulin/sulphonylureas. Suggest repeat HbA1c in 6-12 months. Note: HbA1c measurements may be misleading in cases of haemoglobinopathy, increased red cell turnover or post transfusion.
24/03/2023	Non-t est	23-854 7075-A S-0	Note	Other				Validated by BCS, MLSci
24/03/2023	Non-t est	23-854 7075-G RP-0	Note	Other				Validated by BCS, MLSci
24/03/2023	Non-t est	23-854 7075-H IV-0	Note	Other				This test is performed using a 4th generation HIV combination assay, which will detect ~90% of infections by 28 days after exposure.
24/03/2023	Non-t est	23-854 7075-H CV-0	Note	Other				No serological evidence of hepatitis C infection. If acute HCV infection is suspected clinically, serology should be repeated in 3 months.

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24/03/2023	Non-test	23-8547075-HPM-0	Note	Other				Validated by SBU, MLSci
24/03/2023	Non-test	23-8547075-RMA-0	Note	Other				Rubella IgG Interpretation: > 10 IU/mL: Protective level of rubella antibody 5-9.9 IU/mL: Indeterminate < 5 IU/mL: Below the limit of the assay The receipt of two doses of rubella vaccine is regarded as evidence of immunity. One dose of MMR is recommended for those with levels < 10 IU/mL without a history of 2 vaccine doses, particularly if travel overseas to Africa or Asia is likely. Healthcare workers with a rubella antibody level of < 10 IU/mL and without a documented history of receiving two doses of a rubella containing vaccine should be offered one dose of MMR.
15/03/2024	Non-test	24-24806916-HMA-0	Note	Other				Interpretation: Progesterone Oestradiol Follicular < 2 100 - 570 Mid-cycle 175 - 1150 Luteal 8 - 70 120 - 1090 Post Menopausal < 3 < 185

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18/03/2024	Non-t est	24-248 48736- HMA-0	Note	Other				Interpretation: Progesterone Oestradiol Follicular < 2 100 - 570 Mid-cycle 175 - 1150 Luteal 8 - 70 120 - 1090 Post Menopausal < 3 < 185
19/07/2024	Non-t est	24-276 70507- HMA-0	Note	Other				Interpretation: Progesterone Oestradiol Follicular < 2 100 - 570 Mid-cycle 175 - 1150 Luteal 8 - 70 120 - 1090 Post Menopausal < 3 < 185
22/07/2024	Non-t est	24-277 11059- HMA-0	Note	Other				Interpretation: Progesterone Oestradiol Follicular < 2 100 - 570 Mid-cycle 175 - 1150 Luteal 8 - 70 120 - 1090 Post Menopausal < 3 < 185
24/07/2024	Non-t est	24-277 73110- HMA-0	Note	Other				Interpretation: Progesterone Oestradiol Follicular < 2 100 - 570 Mid-cycle 175 - 1150 Luteal 8 - 70 120 - 1090 Post Menopausal < 3 < 185
22/11/2024	Non-t est	24-306 13344- HMA-0	Note	Other				Interpretation: Progesterone Oestradiol Follicular < 2 100 - 570 Mid-cycle 175 - 1150 Luteal 8 - 70 120 - 1090 Post Menopausal < 3 < 185
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25/11/2024	Non-t est	24-306 53580-HMA-0	Note	Other				Interpretation: Progesterone Oestradiol Follicular < 2 100 - 570 Mid-cycle 175 - 1150 Luteal 8 - 70 120 - 1090 Post Menopausal < 3 < 185
28/08/2025	Non-t est	25-369 49196-HMA-0	Note	Other				Interpretation: Progesterone Oestradiol Follicular < 2 100 - 570 Mid-cycle 175 - 1150 Luteal 8 - 70 120 - 1090 Post Menopausal < 3 < 185
05/09/2025	Non-t est	25-371 52886-HMA-0	Note	Other				Interpretation: Progesterone Oestradiol Follicular < 2 100 - 570 Mid-cycle 175 - 1150 Luteal 8 - 70 120 - 1090 Post Menopausal < 3 < 185
06/09/2025	Non-t est	25-371 83668-HMA-0	Note	Other				Interpretation: Progesterone Oestradiol Follicular < 2 100 - 570 Mid-cycle 175 - 1150 Luteal 8 - 70 120 - 1090 Post Menopausal < 3 < 185
22/09/2025	Non-t est	25-375 36415-HCG-0	Note	Other				Serum HCG reference intervals <5 IU/L Non-pregnant (pre-menopausal) <14 IU/L Post-menopausal 6-25 IU/L Re-test in 2-3 days if this test was to check pregnancy >25 IU/L Pregnant

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28/07/2025	Haematology	25-36187112-FBE-0	NRBCS	Nucleated Red Blood Cells	0.00	x 10e9/L		
24/03/2023	Haematology	23-8547075-FBE-0	Nucleated RBCs	Nucleated Red Blood Cells	0.00	x 10e9/L		
15/03/2024	Non-test	24-24806916-HMA-0	Oestradiol	Other	1951	pmol/L		
18/03/2024	Non-test	24-24848736-HMA-0	Oestradiol	Other	4834	pmol/L		
19/07/2024	Reproductive Hormone	24-27670507-HMA-0	Oestradiol	Oestradiol	1146	pmol/L		
22/07/2024	Reproductive Hormone	24-27711059-HMA-0	Oestradiol	Oestradiol	3369	pmol/L		

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24/07/2024	Reproductive Hormone	24-27773110-HMA-0	Oestradiol	Oestradiol	4466	pmol/L		
22/11/2024	Reproductive Hormone	24-30613344-HMA-0	Oestradiol	Oestradiol	2359	pmol/L		
25/11/2024	Reproductive Hormone	24-30653580-HMA-0	Oestradiol	Oestradiol	5136	pmol/L		
28/08/2025	Reproductive Hormone	25-36949196-HMA-0	Oestradiol	Oestradiol	152	pmol/L		

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Female lab. diagnostics

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BMI: 28.7

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faw@fertilityassociates.co.nz

Attending clinician: Murray, Andrew Dr
Gravida: Gravida: 1 Para: 0 Abort: 0 Ind. abortion: 1 Ectopic: 0

Date	Group	Sample	Param. import name	Parameter	Value	Unit	Value range	Note
05/09/2025	Reproductive Hormone	25-37152886-HMA-0	Oestradiol	Oestradiol	6273	pmol/L		
06/09/2025	Reproductive Hormone	25-37183668-HMA-0	Oestradiol	Oestradiol	8891	pmol/L		
24/03/2023	Haematology	23-8547075-FBE-0	Platelets	Platelets	252	x 10e9/L	150 - 400	
28/07/2025	Haematology	25-36187112-FBE-0	Platelets	Platelets	270	x 10e9/L	150 - 400	

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Date	Group	Sample	Param. import name	Parameter	Value	Unit	Value range	Note
26/03/2024	Non-test	24DG4799U005200	Pre-Implantation Genetic Scree	Other				Specimen Type: Blastocyst TE biopsy, day 6 Date of biopsy: 26/03/24 Date OPU: 20/03/24 Indication: Elective PGT-A, following PGT-M for Lynch Syndrome Quality Embryo (A/B)*Result 1-3 No Result: No result was obtained due to WGA failure. Result key: "+" trisomy/polysomy, "-" monosomy, "p" short arm, "q" long arm, "del" deletion, "dup" duplication, "mos" mosaic *A-high quality data; B-data of lower quality (within QC parameters) Analysis Method: Cells from embryo biopsy undergo a whole genome amplification step and library preparation for next-generation sequencing using an Ion SingleSeq kit (Thermo Fisher Scientific) on an Ion Chef system (Thermo Fisher Scientific). Prepared

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								libraries are then sequenced using Ion ReproSeq PGS kit (Thermo Fisher Scientific) on an Ion S5 Prime (Thermo Fisher Scientific). Embryo biopsies are then screened for aneuploidy status of all 24 chromosomes using Ion Reporter software (Thermo Fisher Scientific). Notes: This screening test is used as an indicator of the chromosome aneuploidy status of each embryo and provides assessment of likely pregnancy success after embryo transfer. Due to technical limitations and the possibility of mosaicism, the reported rate of misdiagnosis for PGT-A by NGS and aCGH could be up to 2% (PMID: 31972371, 29117384, 26984233, 23254309, 20971462). PGT-A will not detect balanced chromosome rearrangements, uniparental disomy, copy number changes <10 Mb, repetitive sequences (e.g. short arms of acrocentric chromosomes) and may not detect chromosome mosaicism. Some types of polyploidy cannot be detected. PGT-A results should be interpreted in the context of clinical and familial information. Prenatal testing should be considered for any ensuing pregnancy. Mosaicism in reported in accordance with recommendations from PGDIS (PMID: 35523707). Re-biopsy of mosaic embryos, or a further cycle of IVF with aneuploidy screening, should be considered

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Date	Group	Sample	Param. import name	Parameter	Value	Unit	Value range	Note
								before transfer of a mosaic blastocyst. Transfer of mosaic embryos should only be performed following appropriate genetic counselling. Monitoring and prenatal diagnosis of any ensuing pregnancy, preferably by amniocentesis, should be undertaken. For more information regarding this report please contact Canterbury Health Laboratories at genelab.test@cdhb.health.nz . Reported Written by K Brook, Med Lab Scientist Report authorised by S.J.Ford, Med Lab Scientist

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Date	Group	Sample	Param. import name	Parameter	Value	Unit	Value range	Note
15/03/2024	Non-t est	24-248 06916-HMA-0	Progesterone	Other	1	nmol/L		
18/03/2024	Non-t est	24-248 48736-HMA-0	Progesterone	Other	4	nmol/L		
19/07/2024	Repro ductiv e Horm one	24-276 70507-HMA-0	Progesterone	Progesterone	1	nmol/L		
22/07/2024	Repro ductiv e Horm one	24-277 11059-HMA-0	Progesterone	Progesterone	2	nmol/L		
24/07/2024	Repro ductiv e Horm one	24-277 73110-HMA-0	Progesterone	Progesterone	4	nmol/L		

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Date	Group	Sample	Param. import name	Parameter	Value	Unit	Value range	Note
22/11/2024	Reproductive Hormone	24-30613344-HMA-0	Progesterone	Progesterone	1	nmol/L		
25/11/2024	Reproductive Hormone	24-30653580-HMA-0	Progesterone	Progesterone	2	nmol/L		
28/08/2025	Reproductive Hormone	25-36949196-HMA-0	Progesterone	Progesterone	1	nmol/L		
05/09/2025	Reproductive Hormone	25-37152886-HMA-0	Progesterone	Progesterone	4	nmol/L		

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06/09/2025	Reproductive Hormone	25-37183668-HMA-0	Progesterone	Progesterone	4	nmol/L		
24/03/2023	Haematology	23-8547075-FBE-0	RBC	Red Blood Count	4.46	x 10e12/L	3.60 - 5.60	
28/07/2025	Haematology	25-36187112-FBE-0	RBC	Red Blood Count	4.44	x 10e12/L	3.60 - 5.60	
24/03/2023	Haematology	23-8547075-A S-0	Red Cell Antibodies	RBC antibody screen	Not Detected			

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24/03/2023	Non-t est	23-854 7075-HMA-0	Reproductive Hormones	Other				REPRODUCTIVE HORMONES Specimen taken on 24/03/2023 at 12:54 pm LMP Not Stated FSH 9.0 U/L LH 2.8 U/L Progesterone < 1 nmol/L 17B Oestradiol 126 pmol/L Interpretation: F.S.H. L.H. Progesterone Oestradiol Follicular 3 - 10 2 - 8 < 2 100 - 570 Mid-cycle 5 - 25 10 - 75 175 - 1150 Luteal 2 - 8 2 - 8 8 - 70 120 - 1090 Post Menopausal > 20 > 15 < 3 < 185 Pregnancy < 1 < 1
18/03/2024	Non-t est	24-248 48736-HMA-0	REPRODUCTIVE HORMONES	Other				Validated by dpeart, MLS
22/07/2024	Non-t est	24-277 11059-HMA-0	REPRODUCTIVE HORMONES	Other				Validated by jlynch, MLS

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Gravida: Gravida: 1 **Para:** 0 **Abort:** 0 **Ind. abortion:** 1 **Ectopic:** 0

Date	Group	Sample	Param. import name	Parameter	Value	Unit	Value range	Note
24/07/2024	Non-test	24-277 73110-HMA-0	REPRODUCTIVE HORMONES	Other				Validated by Ilauv, MLS
22/11/2024	Non-test	24-306 13344-HMA-0	REPRODUCTIVE HORMONES	Other				Validated by pholda, MLS
25/11/2024	Non-test	24-306 53580-HMA-0	REPRODUCTIVE HORMONES	Other				Validated by adhara, MLS
05/05/2023	Non-test	23-882 2355-5 611-08 60	Result From	Other				Canterbury Health Laboratories
24/03/2023	Haematology	23-854 7075-G RP-0	Rhesus Group	Blood Group Rhesus Factor	Positive			
24/03/2023	Immunology	23-854 7075-R MA-0	Rubella IgG	Rubella IgG	193	IU/mL	> 9	

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24/03/2023	Non-test	23-854 7075-S Y-0	Syphilis Serology	Other				SYPHILIS SEROLOGY Syphilis EIA Non Reactive No treponemal antibodies detected by EIA. Antibodies normally appear about the time of a primary lesion. Repeat testing may be required after recent high risk exposure.
24/03/2023	Thyroid	23-854 7075-T FM-0	TSH	TSH	1.9	mIU/L	0.40 - 3.80	
28/07/2025	Thyroid		TSH	TSH	1.4	mIU/L	0.40 - 3.80	
24/03/2023	Non-test	23-854 7075-V ZA-0	Varicella Zoster Serology	Other				VARICELLA ZOSTER SEROLOGY Varicella zoster IgG DETECTED Serological evidence of previous varicella zoster infection or immunisation. Validated by SBU, MLSci

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24/03/2023	Haematology	23-8547075-FBE-0	WBC	White Blood Count	5.8	x 10e9/L	4.0 - 11.0	
28/07/2025	Haematology	25-36187112-FBE-0	WBC	White Blood Count	6.7	x 10e9/L	4.0 - 11.0	

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